RALEIGH AMATEUR RADIO SOCIETY

RARS

WORLDWIDE FRIENDSHIP

DAVE LANGLEY, W4YDY/K4IWJ
EDITOR

TOM ALEXANDER, WA4OTA
ASSISTANT EDITOR

"Raleigh Amateur Radio Society News"

JUNE - 1971

ISSUE 20

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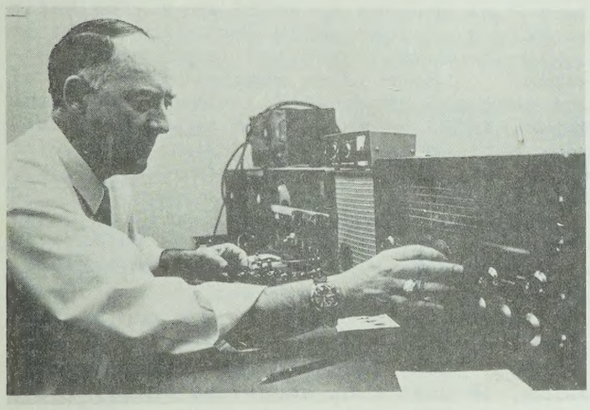
MEET YOUR MEMBERS -

BERT BAILEY W 4 F M N



In the limelight this month is none other than Bert (alias 'Beetle') Bailey, our friendly Emergency Coordinator for Wake County. Bert is an old Army man from way back, having 23 years active military duty behind him & retiring as a Lt. Colonel prior to returning to his home town, Raleigh. Bert's time in service included over 100 parachute jumps with the airborne, special forces, communications & signal corps assignments, as well as logging 1200 hours as a military light aircraft pilot. At present, he is an instructor and head of the Electronics Dept. at Holding Technical Institute. He and his wife, Tommie Lou, live at 701 Currituck Dr. here in Raleigh. They have one son and four daughters.

Bert was first licensed as a conditional class license in 1960, and upgraded to advanced class in 1969. Some of the gang may have worked him in the past as K R 6 O F on Okinawa. At the present, he prefers 80 and 10-meter CW, with a bit of 6-meter SSB. He has given considerable time to RARS, one of his latest efforts being his able chairmanship of the MARS program, at the 1970 ARRL Roanoke Division Convention. He is now in the process of organizing a RACES program. He caught the RARS "train" & became EC for Wake County.

Bert still finds time for a bit of tennis - or baseball, when Holding Tech. gives him a free minute. Don't sneak up behind him and hollar "airborne" because he has been known to grab for his rip cord, roll up in a ball and start counting seconds. Seriously speaking, RARS is fortunate to have such a fine and active member.

********** Tom, WA4OTA **********

R A R S N E T - Tuesday evenings 7:30 PM on 28.540 MHz. Dave Langley, W4YDY, reports some activity & invites more members to tune in. Latest ARRL official bulletins are read on the air by Bob Johnson-W4CQJ.

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N E X T M E E T I N G

The next monthly meeting of the 'RARS' will be held Wednesday evening, June 2, 7:30 PM. Lee, WA4ZNA, is keeping the program a secret from the editor because he skipped town again and missed the deadline. So, everyone be sure to come and we'll all be surprised!

The meeting will be held at the Civil Defense Headquarters, in the basement of the N.C. State Government Administrative Bldg., 116 W. Jones Street. Ample parking is available behind the building. Please enter thru the back door.

Everyone interested in Amateur Radio is invited.

YAKKEY-DEE-YAK FROM THE EDITOR

The Raleigh Amateur Radio Society has another busy summer ahead. FIELD DAY is upon us, and George Wallace, WB4PNR, is hard at work getting the activities ready to go. His co-chairman, Tom Martin K4CQJ, is also working with George to see that our club will place high in the standings. George took over the job of chairman just recently, so, if possible, please give him the assistance he needs when he calls on you. FIELD DAY is June 26-27, so time is running out. Also, be sure to bring the family for the club picnic at the FIELD DAY site. It's on the house. (And I won't even be in town!) It looks like another fine weekend at the State Fairgrounds.

Right on the heels of Field Day, the R A R S members will be hard at work planning for the NORTH CAROLINA STATE ARRL CONVENTION & HAMFEST, to be held September 26th in Dorton Arena. Many of the committee chairmen for the ARRL convention last year are hard at work again. But, they want all of the members to get more involved. It should be a very good hamfest, rain or shine. It will be all indoors, with the flea market on the main floor of the arena. Wonder what kind of DX the mobiles will work out of there? There will be lots of prizes and good food. The cost will be held to the absolute minimum. Plan to bring the family. And when you're talking to your friends...be sure to tell them. This will be the largest & best hamfest in this part of North Carolina, so it will afford many a chance to attend the only one of the year for them. Take a close look at the RARS Calendar of Events and you can see that there are a lot of activities for our club coming up. The opportunity is there for every one of our members to get involved in some way. **Dave, W4YDY**

PUBLISHED BY RALEIGH AMATEUR RADIO SOCIETY, INC., P. O. BOX 12541, RALEIGH, N. C. 27605 ■ ADVERTISING MANAGER - PAUL BROWNE, WN4PZW; TECHNICAL EDITOR - BERT BAILEY, W4FMN ■ OFFICERS: ED ALDERMAN, WA4PEN, PRESIDENT; LEE JOHNSON, WA4ZNA, VICE PRESIDENT; BOB WORKMAN, WA4ZZN, SECRETARY; BILL MCDOWELL, K4CIA, TREASURER ■ PRINTED BY QUIKCOPY, RALEIGH, NORTH CAROLINA.

EMERGENCY PLAN FOR ALAMANCE COUNTY

On Wednesday, May 7th, I had the pleasure of meeting two amateurs who have volunteered to assist in organizing a RACES network in Alamance County. Mark McIntyre (WA4FFW) & J. Bryan (WB4GTC), members of the Alamance Amateur Radio Club, asked me to meet with them in Graham N.C. to develop plans for activating a county emergency radio system. They came up with a plan which should provide a lot of interesting amateur radio activity. Mr. J.M. Parris, the Alamance County Civil Defense Director, is one hundred percent behind the project. So maybe in the near future we will have a new VHF network in operation which will provide emergency radio circuits in Alamance County. In addition, they are making plans to establish a six-meter FM base station to communicate with the state Civil Defense area D office in Asheboro. Many thanks for the help fellows, and best of luck to you and the club.

Clif Blalock, W4GLK, Comm. & Warning Officer
N.C. Civil Defense Agency Raleigh, N.C.

RACES

Some fergit, but hamdom really exists because it qualifies as a service. The ARRL sponsors traffic nets and emergencies under its Amateur Radio Public Service Corps (ARPSC); it recognizes and assists the Radio Amateur Civil Emergency Service (RACES). RACES is sponsored by the Office of Civil Defense and is implemented at the various levels of CD. Permanently established under the provisions of Part F of the ham regs, RACES regs are printed in full in the ARRL License Manual. Every ham should study and become familiar wid these. Segments of the ham bands have been pegged for hams operating in this service; separate authorization is required for hams to operate in these areas. RACES is part of the amateur service, its regs are part of the ham regs, and it operates on the ham bands. The segments referred to are shared wid all hams in peace time; in war, these segments wud become exclusive. The FCC does not issue licenses for RACES. It issues authorizations for existing ham stations to operate in this service. RACES opn differs from normal ham opn because it must deal in security, preparation for wartime. When hams operate in a RACES network under CD supervision, it operates under those regs mentioned in Part F as amended by RACES regs. The Radio Officer (RO), RACES, in concert wid the CD communications officer, calls periodic drills or tests of various kinds. The RACES crew turns out wid its community-owned equipment purchased wid our taxes, goes thru its paces and secures. There is no ragchewing or casual QSOs. Non-hams can, during this time, transmit but when all is secured, these non-hams are no longer authorized to transmit. As is expected, RACES is authorized to operate during any natural disaster as RACES. Most RACES organizations have acquited themselves well in such roles. At the present time, your Wake County EC, W4FMN, and Assistant EC, W4RUH, with others to be appointed in the near future, are working closely with the State RACES RO Clif Blalock to insure coordinated effort in the event of emergency and RARS will be fully informed of resulting plans. All hams must remember that amateur radio exists because it qualifies as a service. And the most important service could be rendered in an emergency.
Bert, W4FMN

MOBILE FM EVALUATIONS

Looking at all the real FB 2M mobile rigs on the market, maybe we could all share experiences wid the different types we have used, are using, or just know about. The Galaxy FM210 wid AC210, Drake's TR22 es its Marker Luxury, the Regency HR2, Telecomm's entry, and many others appear to be tremendous buys. Which have you used? Which are best for what? Maybe a little interest would be created if users would express themselves in this paper. We certainly don't want to start a manufacturers' war, but we do want to get a feel for what's the best sauce for the gander. So mount the soapbox and give us the word. I think we need more mobiling hams. They are per se ready for emergencies.
Bert, W4FMN

CAROLINAS TRAFFIC NET - 3573 kHz

April 1971 Report

Total Sessions	29/30 1 Ses nt rptd	Total Net Time	547	Average Traffic	3.2
Total Traffic	93	Different Stations	29	Average Check-ins	6.8
Total Check-ins	198	Average Net Time	18.8	Message Rate	0.17

SERVICE MESSAGE: If you receive a message which has insufficient address for delivery and the information cannot be obtained from the telephone book, or city directory, a service message should be sent to the station of origin asking for a better address. Service messages are also used to make any other inquiries concerning the status of a particular message the servicing station is holding. Since these communications are ham-to-ham, common amateur abbreviations are permissible.

Service messages should receive the same precedence as the message they are servicing. A service message is customarily indicated as such by the letters, "SCV" preceding message no.
Bill Jenkins, K4LND RM/SC - Net Mgr/CNE

SIX NOVICES ASSISTED BY W4RUH

Several months ago, Chuck Littlewood, W4RUH, started a class for Novices and the results were excellent. They all received their licenses. They are Audrey Browne, WN4TYA; Joanne Littlewood, WN4TYB; Pam Johnson, WN4TYC; and Susanne Meyer, WN4USX. Now Chuck is conducting General Class lessons for them with Paul Browne, WN4PZW, and Alan Browne, WN4PZX, joining in. It shouldn't be too long before we hear a lot more activity on the phone bands in the Raleigh area. Chuck is fast becoming one of the most active members of the club, & the RARS is lucky to have him.

FOR SALE

HT-37 Transmitter - First class condition. Works perfect. Includes instruction book - $ 170.00.
Also, homebrew 1 KW SSB amplifier, four 811A's - All band - $ 75.00
R.E. (Gene) Roberson, W4BBS, P.O. Box 5, Pittsboro, N.C. 27312

Stereo set - Fisher 440T AM-FM tuner-amplifier, solid-state, used very little - like new. Has facilities for tape recorders. Garrard RC-88 automatic turntable. Two Electro-Voice speaker systems, Thomasville cabinet for above. All for $ 400.00.
David W. Langley, P.O. Box 17124, Raleigh, N.C. 27609 Phone: 787-0430.

Pair PL175A, 2 each 5-500A, 1 each 4-1000A w/chimney, a 2"CRT, 9 plate caps, es 2 ea. 4-400 all fer $ 50.00.
Call Ralph Ellen at 834-7193.

K4CQJ REFRESHES

At the next club meeting, when you pick up your refreshments on the break, go over & thank Tom Martin, K4CQJ, for the great job he has done. He has always managed to get the coffee and doughnuts ready when needed, and the members quickly consume them at break time. Thanks Tom, for a job well done.

MINI-TECHNICAL REVIEW

QST May 71 starts off with a bit on a receiver counter which looks FB, but it is catered to the 75S3; then read abt simple ways to monitor FM, e.g. modify Radio Shack's Weatheradio, buy Lafayette's PB150 or P100, etc; next, a one-band converter for 20M, a Kraus type presentation on vertical antenna arrays (checked wid computers), an RTL RTTY converter using JK FF's, gud basic pitch on antenna feeders and transmatches, big pic on phonepatching, and the Touchcode keyboard keyer. Short bits follow on rotor braking (no stator, this is antenna talk), assembling a sweep-tube linear, Heath Model IB101 freq counter, rules fer Field Day, and FCC Chairman Burch's outlook on hamming. There are other QSOs, but got to 73 sometime so now, 73.

HAM devotes much of issue to spring cleaning antennas. First, an article on a 4-el collinear array fer 2M (they spell collinear with just one l, but we at RARS are ticklers for exactitude; we go along wid Kraus, Terman, and Co., so 2 l's). The array is extended beyond half-wave and goes 5/8 wid 4 elements fed in phase giving a flat doughnut propagation pattern. Next, read abt baluns fer yagis, a very understandable bit on analyzing xmsn ln trubs by use of time-domain-reflectometry (the only sensible way to do it, actually), HB tilt-over tower, building a bi-square like in '38 (fer 10-15M), UHF xmsn lines, series of ingenious antennas fer 20M, type F coax fittings like CATV uses (75-ohm), and mni short QSOs past p50, all vy FB. Got to read to appreciate all the goodies.

C Q starts by concluding...Part II of FS Meter, that is; then we read all abt the science of fonepatching, how to renovate those old converters into usable hearing aids (receivers), a "call alert" circuit, changes in 160M usage by hams, break-in wid Drake TR3, review of the Tempo I transceiver, a FB article on review of FM principles es FM equipment, another review, this one on Drake's Mkr Lux 2m FM xscvr, es then we hit reg features like DX, Propagation, Q&A, es contest calendar, etc. So CQ has done well w/its issue this month.

7 3 begins its American version (0 degrees azimuth) wid a 75M mobile antenna having whip cap hat, load coil, es rotary inductor (coffee, anyone?); when installed, this one will really break up the demonstrations, VN will be forgotten. Backed up by math es F B clear dwgs, this one shud pull in the DX. If anyone builds, pls let us know; cud be a real winner. Then we see a bit on FET preamp fer 2M, xtal calibrating the HQ100, history of RVL Hartley of Hartley Osc fame, how instant replay on those football broadcasts work es more, designing xstrs fer LP amplifiers, building a 10M DSB xmtr, walkie-talkie FM directory (FIRE MISSION!), HBing a preamp compressor clipper, converting the old BC221 and LM freq meters from tubes to new stuff (FETs), and, skipping lots of short articles so can go to press, we have a one tube 2M xscvr on 2M fer ten bucks built from the junk box(?). Then 73 closes wid last few pages giving gud rundown on surplus gear available.

.....Bert, W4FMN

ARMED FORCES DAY

Not commented upon becuz it'll all be over when issue gets to you is Armed Forces Day commo activities. This year there were (are, will??) lots of stations on the air to award certificates of all types--the 3456d Abn Mobile Repair Unit (SP), the 987th Truck Co., etc. Es more voyages being made in the air and on the sea. So hoped you QSLd these FB people, especially the Army, Navy, es all the other types that exist to support the Army. Wid all the fancy transceivers in cellophane these days, it's gud practice to wrk x-band once in a while.

.....Bert, W4FMN

RARS SWEEPSTAKES NOTICE

All participants in the RARS Sweepstakes are requested to submit their logs to Bob Johnson, W4CQJ, At the next club meeting. Or mail to Bob at 5401 Thayer Drive, Raleigh, N. C. 27609. Include date, time, station, frequency, emission, and birthday of each station worked.

RARS CALENDAR OF EVENTS

JUNE

2 .....Regular Meeting
2 .....FCC Exams - Wilmington
12 - 13 .....VHF QSO Party
15 .....Executive Committee Meets
26 - 27 .....ARRL Field Day

JULY

7 .....Regular Meeting
20 .....Executive Committee Meets

AUGUST

4 .....Regular Meeting
11 - 13 .....FCC Exams - Winston-Salem
17 .....Executive Committee Meets

SEPT.

1 .....Regular Meeting
15 .....Executive Committee Meets
26 .....N. C. ARRL Convention

OCT.

6 .....Regular Meeting
19 .....Executive Committee Meets
30 - 31 .....CQ WW DX Phone Contest

NOV.

3 .....Regular Meeting
13 - 14 .....ARRL SS Phone
16 .....Executive Committee Meets
20 - 21 .....ARRL SS CW
27 - 28 .....CQ WW DX CW Contest

TUESDAY NIGHTS

RARS NET

28.540 MHz

RARS ROSTER RALEIGH

W 2 G H K/4	A	Stuart Meyer	4000 Wingate Drive	787-6702
W 4 B K L	C	James W. Reid	108 N. Lord Ashley Rd.	833-4310
W 4 B R T	A	Ross H. Reynolds	1420 Park Drive	832-8091
K 4 C I A	E	William G. McDowell	3709 Huntleigh Drive	876-2686
W 4 C Q J	A	Robert A. Johnson	5401 Thayer Drive	787-6044
K 4 C Q J	A	Thomas E. Martin	2809 Little John Road	833-5620
W B 4 C Y S	A	Tommy Norwood	2614 Van Dyke Avenue	832-8608
W B 4 D A R	G	H. Warren Brainard	316 Oak Ridge Rd./Cary	467-1771
K 4 D O C	G	William R. Smith,III	2209 New Bern Avenue	834-4792
W 4 E E L	C	Jesse W.P. Hodges	310 Pogue Street	833-0229
W 4 F M N	A	K.H. Bailey, Jr.	701 Currituck Drive	787-1643
W B 4 H A L	A	James M. Wilson	828 Greenwich Street	828-3663
W B 4 H H I	G	Harry M. Thompson	509 Harvard Street	787-5593
W 4 H H N	A	Keith Neighbors	P.O. Box 383/Benson	894-3220
K 4 H R N	E	Cecil W. Hobbs	609 Essington Place	~~828-9728~~
W 4 H U W	A	Max Silvers	Rt. 4, Box 449	832-1559
K 4 I X W	C	Carl H. Rice	2409 Greenway Avenue	787-5371
W A 4 J F U	T	Hubert H. Foster	105 W. Aycock Street	828-6152
W 4 J U G	A	James T. Johnson	815 Coleman Street	833-9189
W 4 K U E	A	Herbert G. Powell	2800 Dover Farm Road	834-6340
W 4 K X W	C	Robert C. Morris,Jr.	5309 Birch Place	876-3088
ex-W N 4 L F Y	G	Donald S. Alderman	3101 Julian Drive	876-0340
K 4 M C	E	Robert E. Corns	1619 Oberlin Road	828-6005
K 4 M H S	A	John D.Godwin, Jr.	404 S. Harrison/Cary	467-8814
W B 4 M K Y	T	Paul H. Thoburn	6802 Phillips Court	833-7649
W A 4 M M O	A	Dean A. Glace	Box 15283	832-6457
W B 4 N A W	G	Steve Kastelberg	801 Pamlico Dr./Cary	467-9132
W B 4 N Z B	G	Richard S. Converse	Box 471/Wake Forest	556-3353
W B 4 O R T	T	Harold S. Crumley	136 Rose St./Cary	467-9062
W A 4 O T A	A	Tom Alexander	2535 Country Club Ct.	782-0669
W A 4 P E N	T	Edward M. Alderman	3101 Julian Drive	876-0340
W B 4 P H Q	A	Allen H. Weber	6609 King Lawrence Rd.	851-0334
W B 4 P I E	G	Kedius P. Stephens	Rt. 3, Box 242/Fuquay	552-2064
W N 4 P M I	N	Brian A. Wittman	2016 Hillock Drive	782-1746
W N 4 P M J	N	John P. Wittman	2016 Hillock Drive	782-1746
W B 4 P N R	A	George R. Wallace,Jr.	1418 Marlborough Road	~~834-9059~~
K 4 P O	E	William J. Curry	5305 Clemson Ct.	876-2654
K 4 P S P	C	Michael Falzone	13 Friendly Drive	834-6581
W N 4 P Z W	N	Paul R. Browne	4419 Gates Street	787-4299
W N 4 P Z X	N	Alan Browne	4419 Gates Street	787-4299
W B 4 R R R	G	J.T. Tant	Rt. 10, Box 44	772-4589
W 4 R U H	E	Charles R.Littlewood	1400 Creech Rd./Garner	772-6905
K 4 S A N	G	David E. Thomas	3020 Spanish Court	832-1629
W N 4 S D D	N	Buddy Storie	Rt. 10, Box 410-C	772-5376
W N 4 S D U	N	Ralph L.Rigdon, Jr.	2449 Bertie Drive	834-3802
W N 4 S E Y	N	Daniel Nagel	1004 Pond Street/Cary	467-5131
W N 4 S T C	N	Dan Dermody	2402 Boswell Road	834-6341
W N 4 T Y A	N	Audrey N. Browne	4419 Gates Street	787-4299
W A 4 U X U	E	Mike Wood	Box 15725, NCSU	832-4657
K 4 V L I	A	John Bargamian	108 W. Aycock Street	828-4710
W 4 V N G	A	Howard E. Reinhart	5004 Picardy Place	787-1926
W A 4 V U S	G	John M. Crockett,Jr.	210 Taylor St.,Apt. A	828-2126
W 4 W W D	A	John P. Fried	3606 Winton Road	876-1274
W 4 Y D Y	E	David W. Langley	4517 Revere Drive	787-0430
W A 4 Z N A	C	Lee F. Johnson	3312 Ashby Place	876-2484
K 4 Z V K	C	Walter Chambers	4301 James Road	834-2989
W A 4 Z Z N	A	Robert C. Workman	3625 Brentwood Road	876-2204
no call	-	Jesse B. Aycock	Rt. 4, Box 432A	833-8580
no call	-	Kenneth M. Fish	2031 Simpkins Road	772-6191
no call	-	Norm Ramge	Box 1007,Poole Dr./Garner	772-1870
no call	-	C.T. West	1611 Craig Street	834-5420

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857-1593

876-1672

Ron McCan 772-3754

Pam's Table - front

7-8 Audrey Dining Rm.

8-9 Ellie

9-10 Lottie

ROBERT CORNS
1619 OBERLIN RD
RALEIGH, NC 27608

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U.S. POSTAL SERVICE 28 MAY 1971 PM RALEIGH N.C.

U.S. POSTAGE .08 PB.875686 PB METER